

RCRA RECORDS CENTER
 FACILITY Pratt & Whitney Main St
 I.D. NO. CTD990672081
 FILE LOC. R-1B
 OTHER RMS #2794

Subject requirement	40 CFR section Nos.
<u>C-2d Frequency of Analyses</u> <p>A description of the frequency at which the analyses will be repeated for the trial burn and for operation thereafter. For an on-site facility this will be whenever there is a process change or as often as required to verify consistency of the waste feed.</p>	264.13(b)(4)
<u>C-2e Additional Requirements for Wastes Generated Offsite</u> <p>A description of the procedures used to inspect and/or analyze wastes generated offsite that includes procedures to determine their identity and sampling methods used.</p>	264.13(c)
PART D - SPECIFIC PROCESS INFORMATION	
<u>D-1 Incinerators</u>	
<u>D-1a Justification for Exemption</u> <p>The applicant should have documentation including waste analysis to show that the waste exhibits only the ignitability, corrosivity or selected reactivity characteristic of Subpart C, is not a listed waste in Subpart D, and contains no or insignificant levels of Appendix VIII constituents.</p>	122.25(b)(5)(i) 264.340(b) N/A.
<u>D-1b Trial Burn</u> <p>If the applicant decides to conduct a trial burn to prove the incinerator can meet the required performance standards under the established operating conditions, a trial burn plan must be submitted.</p>	122.25(b)(5)(ii) 122.27(b)
<u>D-1b(1) Trial Burn Plan</u> <p>The trial burn plan should provide all the specific informational requirements for incinerators that must be submitted with the Part A Application. Subparts B through H of Part 264 must also be satisfied. Information submitted in the trial burn plan should satisfy requirements of Part 264, Subpart D.</p>	122.27(b)(1)
<u>D-1b(1)(a) Waste Analysis</u> <p>See Subject Requirement C, Waste Characteristics for specifics.</p>	122.27(b)(1)(i) 264.341

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D-1b(1)(b) Engineering Description of Incinerator	122.27(b)(1)(ii)
D-1b(1)(b)(1) Manufacturer's name and model number	122.27(b)(2)(ii)(B ₁)
D-1b(1)(b)(2) Type of incinerator (e.g., liquid injection, rotary kiln, etc.)	122.27(b)(2)(ii)(B ₂)
D-1b(1)(b)(3) Length and cross-section area of the combustion chamber	122.27(b)(2)(ii)(B ₃)
D-1b(1)(b)(4) Description and type of auxiliary fuel system	122.27(b)(2)(ii)(B ₄)
D-1b(1)(b)(5) Description of capacity of primary fan or blower and description of the equipment and instrumentation to continuously monitor and record the combustion gas velocity. Mfg's fan curves may also be included to evaluate prime mover.	122.27(b)(1)(ii)(E) 264.345
D-1b(1)(b)(6) Description of automatic waste feed cut-off system(s). This should include engineering drawings and narrative of what conditions or circumstances result in activation of waste feed cutoff and also a description of the valves, sensors, and other instrumentation.	122.27(b)(2)(ii)(B ₆)
D-1b(1)(b)(7) Detailed description and engineering drawings of pollution control systems and stack gas monitoring instrumentation. Stack gas monitors should include at a minimum, instrumentation to continuously monitor and record CO levels.	122.27(b)(2)(ii)(B ₇) 264.347

Burn Zol Model 272 liquid waste inc.

liquid injection

6'6" O.D x 21'3"

natural gas or #2 oil



Subject requirement	40 CFR section Nos.
D-1b(1)(b)(8) Description and/or engineering drawings of nozzles, conveyors, or other waste introduction equipment. Also detailed description and drawings of burner design including location and orientation of waste, auxiliary fuel, combustion air and, secondary air, nozzles, plenums, air locks, and other inlets for waste, air, or fuel.	122.27(b)(2)(ii)(B ₈)
D-1b(1)(b)(9) Construction materials of incinerator, pollution control equipment, pumps, piping, ductwork, valves and instrumentation such as thermocouples, probes for pressure differential incinerators, flame sensors, or other items that come into contact with the waste, waste constituents, or combustion products.	122.27(b)(2)(ii)(B ₉)
D-1b(1)(b)(10) Engineering drawings showing the location of temperature, pressure, and flow indicating, recording and control devices. Mfg's equipment and instrumentation specifications should be included. This must include instrumentation to <u>continuously monitor</u> and <u>record</u> waste feed rate.	122.27(b)(2)(vi)(J) 264.345(l)
D-1b(1)(c) <u>Sampling and Monitoring Procedures</u> See Subject Requirement C, Waste Characteristics.	122.27(b)(2)(ii)(C)
D-1b(1)(d) <u>Test Schedule</u>	122.27(b)(2)(ii)(D)
D-1b(1)(d)(1) Dates when shake-down and trial burn are planned	122.27(b)(2)(ii)(D)
D-1b(1)(d)(2) The duration of each test burn	122.27(b)(2)(ii)(D)
D-1b(1)(d)(3) The quantity of waste to be burned during each test burn	122.27(b)(2)(ii)(D)

not planned yet

3 @ 1hr/test

48 gph

Subject requirement	40 CFR section Nos.
<p data-bbox="127 227 829 284">D-1b(1)(e) <u>Test Protocol for Each Waste or Significant Waste Variation</u></p> <p data-bbox="159 300 829 454">Significant variations would include such items as increases in POHC levels; increases in levels of other hazardous constituents; change in ease of combustibility such as a decrease in waste heating values and increases in solids or halogen content.</p> <p data-bbox="159 479 829 1112">D-1b(1)(e)(1) Temperature at which each test burn will take place. the applicant should specify test burns for <u>at least two temperatures</u> unless he is confident that operating and performance standards will be met at the designated combustion temperature. <u>Usually</u>, and especially when auxiliary fuel is necessary, the applicant will want to establish the minimum temperature at which all requirements will be met. This will also serve to establish the temperature at which automatic waste feed cutoff systems will be activated. If a temperature range is given in the Part B application, the permit writer should specify at least the lower temperature as a condition of the draft permit so that a "worst case" operating condition is used for at least one test burn.</p> <p data-bbox="159 1136 829 1502">D-1b(1)(e)(2) A waste feed rate for each test burn. The applicant will again want to test at <u>more than one feed rate</u>. To optimize the feed rate, the applicant will want to determine the maximum feed rate. If a feed rate range is given in the permit application, the permit writer should specify the upper limit of the range as a condition of the draft permit so that "worst case" operating parameters are used during at least one test burn.</p>	<p data-bbox="851 227 1149 259">122.27(b)(2)(ii)(E)</p> <p data-bbox="957 600 1298 698"><i>1832 wt 2000</i></p> <p data-bbox="872 1088 1383 1315"><i>48 gph. max.</i></p>

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<p><u>D-1b(1)(e)(3)</u> Combustion gas velocity for each test burn should be established. Where systems have a blower(s) with one output rate (i.e., not adjustable), the output, should be designated in scfm at the specified system pressure drop.</p>	
<p>D-1b(1)(e)(4) An auxiliary fuel feed rate for each test burn.</p>	122.27(b)(2)(ii)(E)
<p>D-1b(1)(f) <u>Operating Conditions for Pollution Control Devices</u> A description of conditions for pollution control devices including the following: (where applicable) (1) Pressure drops across equipment scrubbers and fabric filters; (2) <u>Temperature of inlet gases for quench tanks, scrubbers, fabric filters and ESP's;</u> (3) <u>Liquid/gas ratios for quench tanks and scrubbers and gas flow for fabric filters and ESP's;</u> (4) pH of scrubbing liquid for scrubbers. Corrosiveness of inlet gas for fabric filters; (5) Moisture content of inlet gases for fabric filters and ESP's; (6) Rapping interval, intensity, and duration for ESP's; (7) Resistivity of particulates in gas stream and applied voltage and current density for ESP's.</p>	122.27(b)(2)(ii)(F)
<p>D-1b(2) <u>Results of Trial Burn</u></p>	122.27(b)(5)(i) 122.27(b)(5)(iii)
<p>See Section C-2 Waste Characteristics</p>	
<p>D-1b(3) <u>Certification</u></p> <p>Submission of trial burn data must be signed and certified by a principal executive officer of at least the level of vice-president. Certification in accordance with 122.27 required only of data obtained pursuant to an approved trial burn.</p>	122.27(b)(vi)(J)

Subject requirement	40 CFR section Nos.
D-1c Trial Burn Substitute Submissions	122.25(b)(5)(iii)
<p>An applicant currently operating an incinerator under interim status may forgo a trial burn by submitting data obtained during interim status operations. The information that must be submitted is basically the same as for the trial burns [(see D-1b(i)) with the following changes.</p>	
<p>D-1c(1) A comparison of the design and operating conditions of the existing incinerator and the one being permitted [see D-1b(1)(b), D-1b(1)(e), and D-1b(1)(f); include in addition to items in these sections for the incinerator being permitted, the expected CO levels in stack exhaust, expected stack gas volume, flow rate and temperature, expected HCl removal efficiency, and proposed waste feed cut-off limits].</p>	<p>122.25(b)(5)(iii)(D) 122.25(b)(5)(iii)(F)</p>
<p>D-1c(2) Sampling, monitoring, and analysis information from trial or operational burns of the existing incinerator, including that used to determine performance standards, must be submitted (see Subject Requirement C, Waste Characterization).</p>	122.25(b)(5)(iii)(E)(1)
<p>D-1c(3) The methods of monitoring temperatures, waste feed rates, combustion gas velocity, and CO, and the results gathered during trial or operational burns for the existing incinerator.</p>	122.25(b)(5)(iii)(E)(2)
<p>D-1c(4) A copy of the certified trial burn data submitted to the Director for the existing incinerator.</p>	<p>122.25(b)(5)(iii)(E)(4) 122.27(b)(5)(i & ii)</p>
PART E - PREPAREDNESS AND PREVENTION	
E-1 <u>Security</u>	
E-1a <u>Security Procedures and Equipment</u>	264.14
<p>Unless a waiver is granted, the facility must demonstrate the following:</p>	122.25(a)(4)